- 1 In July, a supermarket sold 45 981 bottles of fruit juice.
  - (a) The cost of a bottle of fruit juice was \$1.35.

Calculate the amount received from the sale of the 45981 bottles.

Give your answer correct to the nearest hundred dollars.

$$45981 \times $1.35 = $62074.35$$
 $\approx $62100$ 

Answer(a) \$ 62100 [2]

(b) The number of bottles sold in July was 17% more than the number sold in January.

Calculate the number of bottles sold in January.

January July 
$$x = \frac{100}{117} \times 45981$$
 $= 39300$ 

Answer(b) ......[3]

(c) There were 3 different flavours of fruit juice.

The number of bottles sold in each flavour was in the ratio apple: orange: cherry = 3:4:2.

The total number of bottles sold was 45 981.

Calculate the number of bottles of orange juice sold.

$$\frac{4}{3+4+2} \times 45981 = \frac{4}{9} \times 45981$$
= 20436

Answer(c) 20436 [2]

(d) One bottle contains 1.5 litres of fruit juice.

Calculate the number of 330 ml glasses that can be filled completely from one bottle.

Answer(d) 4 [3]

(e)  $\frac{5}{9}$  of the 45 981 bottles are recycled.

Calculate the number of bottles that are recycled.

$$\frac{5}{9} \times 45981 = 25545$$

Answer(e) 25545 [2]